

**Claims**

1. The use of a mixture of 6-O- $\alpha$ -D-glucopyranosyl-D-sorbitol (1,6-GPS) and 1-O- $\alpha$ -D-glucopyranosyl-D-mannitol (1,1-GPM) as prebiotic.
2. The use as claimed in claim 1 as bifidogenic prebiotic.
3. The use as claimed in claim 1 as butyrogenic substrate having the properties of soluble dietary fibers.
4. The use as claimed in claim 1 as substance having the properties of fiber materials and dietary fibers and/or non-digestible carbohydrates.
5. The use as claimed in claim 1 as substance having prebiotic properties.
6. The use as claimed in any of the preceding claims, where the mixture is employed in a human food or other consumable product or animal feed product.
7. The use as claimed in any of the preceding claims, where the mixture is the only butyrogenic substrate.
8. The use as claimed in any of the preceding claims, where the mixture is the only prebiotic, in particular bifidogenic prebiotic, in the human food or other consumable product, animal feed product, or medicament.
9. The use as claimed in any of the preceding claims, where the mixture is isomalt.

10. The use as claimed in any of the preceding claims, where the mixture comprises 1-O- $\alpha$ -D-glucopyranosyl-D-sorbitol (1,1-GPS).

11. The use as claimed in any of the preceding claims, where the mixture comprises mannitol, sorbitol, hydrogenated and/or non-hydrogenated oligosaccharides.

12. The use as claimed in any of the preceding claims, where the mixture has at least one further prebiotic.

13. The use as claimed in any of the preceding claims, where the mixture comprises, in particular besides isomalt, at least one further dietary fiber and/or non-digestible carbohydrate.

14. The use as claimed in any of the preceding claims, where the dietary fiber is an oligo- or polysaccharide such as fructo-oligosaccharide, polydextrose, xyloarabans, inulin, a galacto-oligosaccharide, lactulose, lactitol, a xylo-oligosaccharide, lacto-sucrose, a malto-oligosaccharide, an isomalto-oligosaccharide, a gentio-oligosaccharide, glucosyl-sucrose, a soybean oligosaccharide, a chito-oligosaccharide, a chitosan-oligosaccharide, a pectin, a condensed oligosaccharide, a caramel product, a galactomannan-oligosaccharide, a fucose-containing oligosaccharide, a fucose derivative-containing oligosaccharide, modified starch, partially hydrolyzed guar gum, maltitol, sorbitol, mannitol, xylitol, erythritol, hydrogenated starch hydrolysate, pyrodextrin or a variant obtained by partial

hydrolysis, hydrogenation, oxidation, enzymatic, chemical or other modification of saccharides.

15. The use as claimed in any of the preceding claims, where the insoluble dietary fiber is resistant starch and/or fiber material from wheat, oats, tomato, bean, the fruit of the locust tree, sugar beet or cellulose.

16. The use as claimed in any of the preceding claims, where the mixture comprises at least one non-digestible carbohydrate.

17. The use as claimed in any of the preceding claims, where the mixture comprises at least one probiotic.

18. The use as claimed in any of the preceding claims, where the probiotic is derived from the genus *Lactobacillus* and/or *Bifidobacterium*.

19. The use as claimed in any of the preceding claims, where the mixture is in the form of a synbiotic.

20. The use as claimed in any of the preceding claims, where the mixture is present in solid form in the human food or other consumable product, animal feed product, or medicament.

21. The use as claimed in any of the preceding claims, where the mixture is present suspended or dissolved in water in the human food or other consumable product, animal feed product, or medicament.

22. The use as claimed in any of the preceding claims for producing a human food or other consumable product, or animal feed product.

23. The use as claimed in any of the preceding claims for producing a medicament.

24. The use as claimed in claim 23 for producing a medicament for the treatment and/or prevention of bowel disorders.

25. The use as claimed in claim 23 for producing a medicament for the restoration and/or stabilization of a healthy intestinal flora.

26. The use as claimed in claim 23 for producing a medicament for maintaining a healthy intestinal epithelium.

27. The use as claimed in claim 23 for producing a medicament for supporting intestinal health.

28. The use as claimed in claim 23 for producing a medicament for the restoration and/or promotion of a healthy metabolism of the intestinal flora.

29. The use as claimed in claim 23 for producing a medicament for reducing toxic and harmful intestinal contents.

30. The use as claimed in claim 23 for producing a medicament for reducing oxidative stress.

31. The use as claimed in claim 23 for producing a medicament for the prevention and/or treatment of chronic inflammatory bowel disorders.

32. The use as claimed in claim 23 for producing a medicament for the prevention of intestinal cancer, especially large-intestinal cancer.

33. The use as claimed in claim 23 for producing a medicament for the prophylaxis and/or treatment of infectious diseases, especially bacterial intestinal infections and diarrheas.

34. The use as claimed in claim 23 for producing a medicament for the modulation and strengthening of the immune system.

35. The use as claimed in any of the preceding claims, where the human food or other consumable product or animal feed product is a milk product such as cheese, butter, yogurt, drinking yogurt, kefir, quark, sour milk, buttermilk, cream, condensed milk, dry milk, whey, milk sugar, milk protein, flavored milk, half-fat milk, flavored whey, or milk fat product or preparation; a bakery product, in particular bread, roll, croissant, including patisserie product or fine bakery product including preserved bakery product, cookie product or waffle; a sandwich spread, margarine product; baking fat; an instant product; stock product; fruit product; fruit preparation such as jam, marmalade, jelly, fruit conserve, fruit pulp, fruit purée, fruit juice, fruit juice concentrate, fruit nectar or fruit powder; a vegetable product or preparation such as vegetable conserve, vegetable juice or vegetable purée; a spice mixture; a muesli or muesli

mixture; a finished muesli-containing product; a non-alcoholic beverage such as sports drink and diet lemonade; beverage base material; beverage powder; a confectionery product such as chocolate, hard caramel, soft caramel, chewing gum, sugar-coated candy, fondant product, jelly product, licorice, marshmallow product, flaked products, compressed product, candied fruit, praline, nougat products, Eiskonfekt, marzipan, muesli bar, ice cream, alcoholic and non-alcoholic sweet drink; enteral nutrition form or an animal feed product.

36. The use as claimed in any of the preceding claims for the treatment and/or prevention of bowel disorders.

37. The use as claimed in any of the preceding claims for the restoration and/or stabilization of a healthy intestinal flora.

38. The use as claimed in any of the preceding claims for maintaining a healthy intestinal epithelium.

39. The use as claimed in any of the preceding claims for supporting intestinal health.

40. The use as claimed in any of the preceding claims for the restoration and/or promotion of a healthy metabolism of the intestinal flora.

41. The use as claimed in any of the preceding claims for reducing toxic and harmful intestinal contents.

42. The use as claimed in any of the preceding claims for reducing oxidative stress.

43. The use as claimed in any of the preceding claims for the prevention and/or treatment of chronic inflammatory bowel disorders.

44. The use as claimed in any of the preceding claims for preventing intestinal cancer, especially large-intestinal cancer.

45. The use as claimed in any of the preceding claims for the prophylaxis and/or treatment of infectious diseases, especially bacterial intestinal infections and diarrheas.

46. The use as claimed in any of the preceding claims for modulation and strengthening of the immune system.